Reviewer Comments

The following is a compilation of comments provided by multiple reviewers following the panel's discussion and scoring of the application. All reviewers were asked to provide brief bullets on key strengths, concerns, or recommendations related to the proposal that CIRM compiled and edited for clarity.

Strengths

- This is a good proposal by competent investigator.
- The creation of a web portal is nice.
- Whole genome sequencing will enable capture of noncoding sequences important in disease.

Concerns

- It is not fully competitive with other proposals for the amount of data that would be produced for the available budget.
- There are a low number of samples to be sequenced compared to total repository.
- The focus on DNA quality is good, but expensive.
- The decision to grow cells in lab rather than use DNA available not well-justified and is resource-intensive.
- This is a straightforward proposal but lacking in key management issues.

Additional Comments

- The goal of the proposed work is to perform and present an in depth genetic characterization of the CIRM hiPSC line collection and integrate it with the available clinical data. Industrial scale sequencing resources provided by a subcontracted company to cost efficiently analyze ~500 whole genome sequences from the CIRM iPSC collection. Although the team is strong, the limited sample number and high costs of adding the cell culture aspect reduce the power of this application.